

<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty Docket No. IMM1P094 Applicant: T. Shalit Filing Date: 8/24/98  Application No.: 09/125,711 Group 2774  <div style="text-align: center;"> <b>RECEIVED</b>  <b>FEB 3 2000</b>  <b>Group 2700</b> </div>
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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DD	A	4,868,549	9/19/89	Affinito et al.	340	710	5/18/87
DD	B	5,186,629	2/16/93	Rohen	434	114	8/22/91
DD	C	5,264,836	11/23/93	Rubin	345	157	1/15/91
DD	D	5,296,871	3/22/94	Paley	345	163	7/27/92
DD	E	5,589,828	12/31/96	Armstrong	341	20	3/5/92
DD	F	5,666,138	9/9/97	Culver	345	161	11/22/94
DD	G	5,714,978	2/3/98	Yamanaka et al.	345	157	12/5/95
DD	H	5,736,978	4/7/98	Hasser et al.	345	173	5/26/95
DD	I	5,781,172	7/14/98	Engel et al.	345	164	6/16/97
DD	J	5,790,108	8/4/98	Salcudean et al.	345	184	10/23/92
DD	K	5,825,308	10/20/98	Rosenberg	341	20	11/26/96

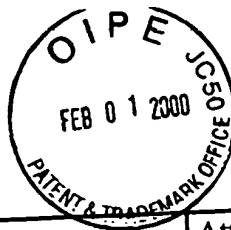
**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
DD	L	0265011	10/12/87	EPO	06F	3/00	X	
DD	M	0489469	11/29/91	EPO	06K	11/18	X	
DD	N	0607580	12/16/93	EPO	06F	3/00	X	
DD	O	0626634	5/11/94	EPO	06F	3/00	X	
DD	P	WO9200559	1/9/92	PCT	06F	3/033	X	

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Kelley et al., "Magic Mouse: Tactile & Kinesthetic Feedback in the Human-Computer Interface using an Electromagnetically Actuated Input/Output Device," University of British Columbia, 1993, pg. 1-27.
DD	S	Kelley et al., "On the Development of a Force-Feedback Mouse & its Integration into a Graphical User Interface," Int'l Mechanical Eng. Congress Exhibition, 1994, pg. 1-8.
DD	T	Payette et al., "Evaluation of a Force Feedback (Haptic) Computer Pointing Device in Zero Gravity," ASME Dynamics Systems, DSC-Vol. 58, 1996, pg. 547-553.
Examiner	<div style="display: flex; justify-content: space-between;"> <span><i>[Signature]</i></span> <span>Date Considered <u>2/20/01</u></span> </div>	

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IMM1P094

Applicant:

T. Shalit

Filing Date: 8/24/98

Application No.:

09/125,711

Group 2774

**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DD	A	5,956,484	9/21/99	Rosenberg et al.	395	200.33	8/1/96
DD	B	5,959,613	9/28/99	Rosenberg et al.	345	161	11/13/96
DD	C	5,990,869	11/23/99	Kubica et al.	345	163	2/19/97
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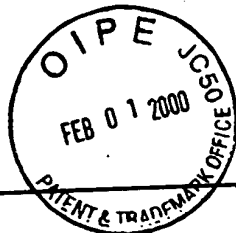
**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-Class	Translation	
							Yes	No
	L	GB2238215	5/22/91	UK Patent	09G	1/00	X	
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**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Rosenberg et al., "Commercially Viable Force Feedback Controller for Individuals w/Neuromotor Disabilities," Armstrong Lab., AL/CF-TR-1997-0016, 1996, pg. 1-33.
DD	S	Adachi et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," Suzuki Motor Corp., 1994, pg. 1-7
DD	T	Ramstein, C., "Combining Haptic & Braille Technologies: Design Issues & Pilot Study," ACM Conf., ASSETS '96, 1996, pg. 37-44.
Examiner	Date Considered	

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**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Ellis et al., "Design & Evaluation of a High-Performance Prototype Planar Haptic Interface," DSC-Vol. 49, ASME, 1993, pg. 55-64.
DD	S	Hirota et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pg. 256-262.
DD	T	Ramstein et al., "The Pantograph: A Large Workspace Haptic Device for a Multimodal Human-Computer Interaction," Computer-Human Interaction, CHI, 1994, pg. 1-3.
Examiner <i>Ducdinh</i>		Date Considered <i>2/20/01</i>

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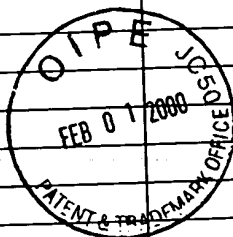
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**Other Documents**

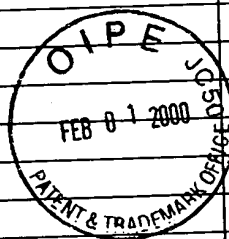
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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication	
DD	R	Munch et al., "Intelligent Control for Haptic Displays," Eurographics, Vol. 15 #3, Eurographics 1996, pg. 1-10.	
DD	S	Akamatsu et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," Presence, Vol. 3, No. 1, 1994, pg. 73-80.	
DD	T	Su et al., "The Virtual Panel Architecture: A 3D Gesture Framework," IEEE 4-7803-1363-1, 1993, pg. 387-393.	
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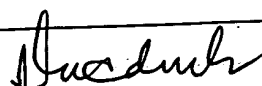
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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Rosenberg et al., "The Use of Force Feedback to enhance Graphical User Interfaces," 1996, Proc. SPIE 2653, 19, pg. 243-248.
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Examiner		
	Date Considered	9/20/01

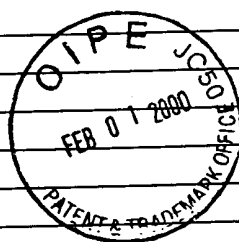
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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Minsky et al., "Feeling & Seeing: Issues in Force Display," ACM 089791-351-5, 1990, pg. 235-242, 270.
DD	S	Schmult et al., "Application Areas for a Force Feed-back Joystick," ASME, DSC-Vol 49, 1993, pg. 47-54.
DD	T	Hannaford et al., "Force-Feedback Cursor Control," NASA Tech Brief, Vol. 13, No. 11, 1989, pg. 1-4.
Examiner	<i>Jucdinh</i>	
Date Considered		2/20/01

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Applicant:

T. Shalit

Group 2700

Filing Date:

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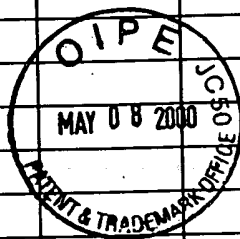
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(Use Several Sheets if Necessary)

## U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DD	A	5,897,437	4/27/99	Nishiumi et al.	463	47	10/8/96
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## Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation Yes	No
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## Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Hasser, et al., "Tactile Feedback with Adaptive Controller for a Force-Reflecting Haptic Display," Parts 1 and 2, 0-7803-3131 IEEE Jan. 1996, pp. 526-533.
DD	S	Hasser, "Tactile Feedback for a Force-Reflecting Haptic Display," School of Engineering, University of Dayton, Dec. 1995, pp. i-xii, 1-99.
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Date Considered:	2/20/00	

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2774

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## U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DD	A	3,919,691	11/11/75	Noll	340	172.5	5/26/71
DD	B	4,560,983	12/24/85	Williams	340	825	9/17/82
DD	C	4,706,294	11/10/87	Ouchida	381	109	6/10/86
DD	D	4,795,296	1/3/89	Jau	414	5	11/17/86
DD	E	4,800,721	1/31/89	Cemenska et al.	60	393	2/13/87
DD	F	4,823,634	4/25/89	Culver	74	471 XY	11/3/87
DD	G	4,983,901	1/8/91	Lehmer	318	685	4/21/89
DD	H	5,044,956	9/3/91	Behensky et al.	434	45	1/12/89
DD	I	5,107,262	4/21/92	Cadoz et al.	341	22	10/12/89
DD	J	5,146,566	9/8/92	Hollis, Jr. et al.	395	275	5/29/91
DD	K	5,184,319	2/2/93	Kramer	364	806	2/2/90

## Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation Yes	No
DD	L	WO 95/32459	11/30/95	PCT	--	--	X	
DD	M	WO 97/20305	6/5/97	PCT	--	--	X	
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## Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Rosenberg, "A Force Feedback Programming Primer For PC Gaming Peripherals Supporting I-Force 2.0 and Direct-X 5.0," Apr. 1997, Immersion Corporation.
DD	S	Winey III, "Computer Simulated Visual and Tactile Feedback as an Aid to Manipulator and Vehicle Control," Dept. of Mech. Eng., MIT, June 1981.
DD	T	Russo, "The Design and Implementation of a Three Degree-of-Freedom Force Output Joystick," Dept. of Mech. Eng., May 1990.
Examiner:	Date Considered: 9/20/01	

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# Information Disclosure Statement By Applicant

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Applicant:

T. Shalit

Filing Date:

3/4/99

Group:

2774

## U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DD	A	5,185,561	2/9/93	Good et al.	318	432	7/23/91
DD	B	5,203,563	4/20/93	Loper, III	273	148 B	3/21/91
DD	C	5,220,260	6/15/93	Schuler	318	561	10/24/91
DD	D	5,223,776	6/29/93	Radke et al.	318	568.1	12/31/90
DD	E	5,235,868	8/17/93	Culver	74	471 XY	10/2/91
DD	F	5,354,162	10/11/94	Burdea et al.	414	5	8/31/92
DD	G	5,355,148	10/11/94	Anderson	345	166	1/14/93
DD	H	5,396,266	3/7/95	Brimhall	345	161	6/8/93
DD	I	5,399,091	3/21/95	Mitsumoto	434	61	4/26/93
DD	J	5,405,152	4/11/95	Katanics et al.	273	438	6/8/93
DD	K	5,414,337	5/9/95	Schuler	318	561	6/11/93

## Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation Yes	No
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## Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Iwata, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, Vol. 24, No. 4, Aug. 1990, pp. 165-170.
DD	S	Ouh-young, et al., "Creating an Illusion of Feel: Control Issues in Force Display," Dept. of Comp. Science, Univ. of No. Carolina, Sept. 1989, pp. 1-14.
DD	T	Gotow, et al., "Perception of Mechanical Properties at the Man-Machine Interface," Dept. of Mech. Eng., The Robotics Inst., Carnegie Mellon Univ., CH2503-1/87/0000, pp. 688-689.
Examiner: <i>Dusdenh</i>		Date Considered: 2/02/01

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IMM1P094

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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DD	A	5,512,919	4/30/96	Araki	345	156	3/30/93
DD	B	5,513,100	4/30/96	Parker et al.	364	167.01	6/10/93
DD	C	5,576,727	11/19/96	Rosenberg et al.	345	179	6/5/95
DD	D	5,583,478	12/10/96	Renzi	340	407.1	3/1/95
DD	E	5,587,937	12/24/96	Massie et al.	364	578	4/25/95
DD	F	5,589,854	12/31/96	Tsai	345	161	6/22/95
DD	G	5,629,594	5/13/97	Jacobus et al.	318	568.11	10/16/95
DD	H	5,642,469	6/24/97	Hannaford et al.	395	99	11/3/94
DD	I	5,643,087	7/1/97	Marcus et al.	463	38	7/29/94
DD	J	5,666,473	9/9/97	Wallace	345	420	10/8/92
DD	K	5,691,898	11/25/97	Rosenberg et al.	364	190	3/28/96

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## Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Rosenberg, "Virtual fixtures as tools to enhance operator performance in telepresence environments," SPIE Telemanipulator Technology, 1993.
DD	S	Rosenberg, "Virtual haptic overlays enhance performance in telepresence tasks," Dept. of Mech. Eng., Stanford Univ., 1994.
DD	T	Rosenberg, "Perceptual Design of a Virtual Rigid Surface Contact," Center for Design Research, Stanford Univ., Armstrong Laboratory, Apr. 1993, pp. i-vi, 1-40.
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DD	A	5,709,219	1/20/98	Chen et al.	128	782	8/1/96
DD	B	5,714,978	2/3/98	Yamanaka et al.	345	157	12/5/95
DD	C	5,721,566	2/24/98	Rosenberg et al.	345	161	6/9/95
DD	D	5,734,373	3/31/98	Rosenberg et al.	345	161	12/1/95
DD	E	5,742,278	4/21/98	Chen et al.	345	156	11/1/95
DD	F	5,754,023	5/19/98	Roston et al.	318	561	10/22/96
DD	G	5,755,577	5/26/98	Gillio	434	262	7/11/96
DD	H	5,767,839	6/16/98	Rosenberg	345	161	3/3/95
DD	I	5,802,353	9/1/98	Avila et al.	395	500	6/12/96
DD	J	5,844,392	12/1/98	Peurach et al.	318	568.17	5/21/97
DD	K	5,889,670	3/30/99	Schuler et al.	364	186	1/11/96

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Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
DD	R	Rosenberg, et al., "Perceptual Decomposition of Virtual Haptic Surfaces," Proc. IEEE Symposium On Research Frontiers in Virtual Reality, Oct. 1993.
DD	S	Howe, et al., "Task Performance with a Dextrous Teleoperated Hand System," Harvard Univ., Proc. of SPIE, Vol. 1833, Nov. 1992, pp. 1-9.
DD	T	Batter, et al., "GROPE-1: A Computer Display to the Sense of Feel," Proc. IFIP Congress 1971, pp. 759-763.
Examiner: <i>Juedinh</i>		Date Considered: <i>2/20/01</i>

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DD	R	Brooks, Jr., et al., "Project GROPE - Haptic Displays for Scientific Visualization," Dept. of Computer Science, Univ. of No. Carolina, pp. 177-185.
DD	S	Atkinson, et al., "Computing With Feeling," Comput. & Graphics, Vol. 2, pp. 97-103, 1977.
DD	T	Wiker, et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," Proc. of the HFS 35 <sup>th</sup> Annual Mtg., 1991, pp. 708-712.
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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  <i>(Use Several Sheets if Necessary)</i>	<b>Atty Docket No.:</b> IMM1P094	<b>Application No.:</b> 09/125,711
	<b>Applicant:</b> T. Shalit	
	<b>Filing Date:</b> 3/4/99	<b>Group:</b> 2774

### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
DX	A	5,784,052	7/21/98	Keyson	345	167	3/12/96
	B						
	C						
	D						
	E						
	F						
	G						
	H						
	I						
	J						
	K						

### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class	Translation Yes No	
	L							
	M							
	N							
	O							
	P							

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	R	
	S	
	T	
<b>Examiner:</b> <i>Duckert</i>		<b>Date Considered:</b> <i>2/20/02</i>

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	<b>Filing Date:</b> 3/4/99	<b>Group:</b> 2774

### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
DP	A	5,506,605	4/9/96	Paley	345	163	1/26/94
DP	B	5,914,705	6/22/99	Johnson et al.	345	156	2/9/96
DP	C	6,001,014	12/14/99	Ogata et al.	463	37	9/30/97
	D						
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	H						
	I						
	J						
	K						

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							Yes	No
	L							
	M							
	N							
	O							
	P							

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	R	
	S	
	T	
<b>Examiner:</b> <i>Dudovich</i>		<b>Date Considered:</b> <i>2/15/01</i>

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.